

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

Atty Docket No.	Serial No.
INJ-C010C1US (formerly) M-5617-2C US	10/046,846
Applicant(s)	
John B. Bomar, Jr. et al.	
Filing Date	Group January 14, 2002 2163

COPY OF PAPERS
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U.S. Patent Documents							
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
RF	AA	5,317,503	May 31, 1994	Inoue	364	400	
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						

Foreign Patent Documents

		Document	Date	Country	Class	Subclass	Translation
RF	AL	0 644 501 A1	09.09.94	EP	G06F 17	60	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
	AM						
	AN						
	AO						
	AP						

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

RF	AQ	Nilsson-Ehle, A. (1983), 'Energy-based determination of velocity change in traffic accidents', <i>Int. J. of Vehicle Design</i> , vol. 4, no. 2, pp. 126-135.
RF	AR	Brach, Raymond M., 'Least Squares Collision Reconstruction', Detroit, MI, Engl, 1987, pp. 31-40.
RF	AS	Grimes, Wesley D. et al., 'Developing a Crush Profile Estimate by Balancing Impact Forces', Proceedings of the 1997 International Congress And Exposition, Detroit, MI, USA, February 24-27 1997, pp. 1-20.
RF	AT	Prasad, Aloke K., 'Coefficient of Restitution of Vehicle Structures and Its Use in Estimating the Total Delta V in Automobile Collisions', Winter Annual Meeting of the American Society of Mechanical Engineers; Atlanta, GA, USA, December 1-6, 1991, vol. 126, 1991, pp. 217-246.

Examiner Russell Fred Date Considered 9/26/03

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

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	AA						

Foreign Patent Documents

Translation

		Document	Date	Country	Class	Subclass	Yes	No
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

RF	AC	McHenry and McHenry, "A Revised Damage Analysis Procedure for the CRASH Computer Program," <u>Thirtieth Stapp Car Crash Conference Proceedings P-189</u> , October 1986, pp 333-344. SAE #861894.
RF	AD	Siegmund, Bailey and King, "Characteristics of Specific Automobile Bumpers in Low-Velocity Impacts," <u>Accident Reconstruction: Technology and Animation SP-1030</u> , February 1994, pp 333-370. SAE #940916.
RF	AE	King, Siegmund and Bailey, "Automobile Bumper Behavior in Low-Speed Impacts," <u>International Congress and Exposition Detroit</u> , Michigan, March 1993. SAE #930211.
RF	AF	Bailey, Wong and Lawrence, "Data and Methods for Estimating the Severity of Minor Impacts," <u>Accident Reconstruction: Technology and Animation V SP-1083</u> , February 1995, pp 139-175. SAE #950352.
RF	AG	Hight and Fugger, "Automobile Damage Scales and the Effect on Injury Analysis," <u>Accident Reconstruction: Technology and Animation II SP-907</u> , February 1992, pp 117-127. SAE #920602.
RF	AH	Woolley, Strother and James, "Rear Stiffness Coefficients Derived from Barrier Test Data," <u>Accident Reconstruction: Technology and Animation SP853</u> , February 1991, pp 9-24. SAE #910120.
RF	AI	Prasad, "CRASH3 Damage Algorithm Reformulation for Front and Rear Collisions," <u>Accident Reconstruction: Human, Vehicle and Environmental Factors SP-814</u> , February 1990, pp 1-10. SAE #900098.
RF	AJ	Bailey, King, Romilly and Thomson, "Characterization of Automotive Bumper Components for Low Speed Impacts," <u>Proceedings of the Canadian Multidisciplinary Road Safety Conference VII</u> , June 1991, pp 190-203.
RF	AK	Howard, Bomar and Bare, "Vehicle Restitution Response in Low Velocity Collisions," <u>1993 SAE Future Transportation Technology Conference San Antonio, Texas</u> , August 1993, pp 1-10. SAE #931842.
RF	AL	Robinette, Fay and Paulsen, "Delta-V: Basic Concepts, Computational Methods, and Misunderstandings," <u>Accident Reconstruction: Technology and Animation IV SP-1030</u> , February 1994, pp 309-332. SAE #940915.
RF	AM	Campbell, "Energy Basis for Collision Severity," 1974. SAE #740565.

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RF	AN	Strother, Woolley and James, "A Comparison Between NHTSA Crash Test Data and CRASH3 Frontal Stiffness Coefficients," <u>Accident Reconstruction: Human, Vehicle and Environmental Factors SP-814</u> , February 1990, pp27-37. SAE #900101.
RF	AO	Prasad, "Energy Absorbing Properties of Vehicle Structures and Their Use in Estimating Impact Severity in Automobile Collisions," <u>IMechE</u> 1992, pp 61-72. SAE #925209.
RF	AP	Siddall and Day, "Updating the Vehicle Class Categories," <u>Accident Reconstruction: Technology and Animation VI SP-1150</u> , February 1996, pp 271-280. SAE #960897.
RF	AQ	Prasad, "Energy Dissipated in Vehicle Crush-A Study Using the Repeated Test Technique," <u>Vehicle Crashworthiness and Occupant Protection in Frontal Collisions SP-807</u> , February 1990, pp 17-27. SAE #900412.
RF	AR	Siegmund, King and Montgomery, "Using Barrier Impact Data to Determine Speed Change in Aligned, Low-Speed Vehicle to Vehicle Collisions," <u>Accident Reconstruction: Technology and Animation VI SP-1150</u> , pp 147-168. SAE #960887.
RF	AS	Strother, Woolley, James and Warner, "Crush Energy in Accident Reconstruction," <u>Passenger Comfort, Convenience and Safety: Test Tools and Procedures P-174</u> , February 1986, pp 257-273. SAE #860371.
	AT	
Examiner <u>Russell Fazio</u>		Date Considered <u>9/26/03</u>
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Application No. 10/046,846	Applicant(s) Patent Under Reexamination BOMAR ET AL.
Examiner Unknown	Art Unit 2136

U.S. PATENT DOCUMENTS

*	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	DOCUMENT SOURCE **	
						APS	OTHER
<input type="checkbox"/>	A 5,469,628	Nov. 1995	Chartrand	33	608	<input type="checkbox"/>	<input type="checkbox"/>
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<input type="checkbox"/>	V WREXPERT - product review, Biodynamics Research Corporation, [retrieved 2000-04-26]. Retrieved from the Internet <URL: www.biodynamicresearch.com/wrexpert.htm>.	<input type="checkbox"/>	<input type="checkbox"/>
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*A copy of this reference is not being furnished with this Office action. (See Manual of Patent Examining Procedure, Section 707.05(a).)

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Application No.
10/046,846

Application(s) Patent Under
Reexamination
BOMAR ET AL.

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<input type="checkbox"/> Y	Bonnett, George, "Understanding Delta V From Damage," 1996, [retrieved on 2000-04-26]. Retrieved from Internet <URL: www.rec-tec.com/deltav.html>.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Z	WinCRASH, ARSoftware, [retireved 2000-04-26]. Retrieved from Internet <URL: www.arsoftware.com/arsw.htm>.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> W	EDCRASH, Engineering Dynamics Corporation, [retrieved 2000-04-26]. Retrieved from Internet <URL: www.edccorp.com>.	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> X	CRASHEX, Fonda Engineering Associates, [retrieved 2000-04-26]. Retrieved from Internet <URL: www.crashex.com>.	<input type="checkbox"/>	<input type="checkbox"/>

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Application/Control No. 10/046,846	Applicant(s) John B. Bomar, Jr. et al.
Examiner Unknown	Art Unit 2163

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RF	A 6,052,631	Apr. 2000	Busch et al.	701	29	<input type="checkbox"/>	<input type="checkbox"/>
RF	B 5,920,169	Sep. 1999	Borghesi et al.	705	4	<input type="checkbox"/>	<input type="checkbox"/>
RF	C 5,839,112	Nov. 1998	Schreitmuller et al.	705	4	<input type="checkbox"/>	<input type="checkbox"/>
RF	D 5,657,480	Aug. 1997	Egan et al.	345	326	<input type="checkbox"/>	<input type="checkbox"/>
RF	E 5,657,233	Aug. 1997	Cherrington et al.	705	400	<input type="checkbox"/>	<input type="checkbox"/>
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RF	G 5,469,628	Nov. 1995	Chartrand	33	608	<input type="checkbox"/>	<input type="checkbox"/>
RF	H 5,432,904	Jul. 1995	Wong	705	4	<input type="checkbox"/>	<input type="checkbox"/>
RF	I 5,377,098	Dec. 1994	Sakai	705	29	<input type="checkbox"/>	<input type="checkbox"/>
RF	J 5,317,503	May. 1994	Inoue	700	90	<input type="checkbox"/>	<input type="checkbox"/>
RF	K 5,128,859	Jul. 1992	Carbone et al.	705	4	<input type="checkbox"/>	<input type="checkbox"/>
RF	L 4,435,769	Mar. 1984	Nagano et al.	705	400	<input type="checkbox"/>	<input type="checkbox"/>
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		APS	OTHER
RF	U "Use of Biomechanics to Respond to Low Impact Soft Tissue Cases," Nebraska Department of Insurance Newsletter, Volume 1 - Spring 1998 (Fraud Division)	<input type="checkbox"/>	<input type="checkbox"/>
RF	V WREXPERT - product review, Biodynamics Corporation, [retrieved on 2000-04-26]. Retrieved from the Internet: <URL: www.biodynamicresearch/wexpert.htm>	<input type="checkbox"/>	<input type="checkbox"/>
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A	US-5,950,169	09-1999	Borghesi et al.	705	4
B	US-5,839,112	11-1998	Schreitmueler et al.	705	4
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U	Haggerty, A. "German Auto Repair Test Helps Control Insurance Rates" National Underwriter, Vol. 94, No. 15, April 9, 1990, start page 46 (2).	
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